

**STANDARD FEATURES**

- ◆ ½ hp three speed motor(s)
- ◆ Factory installed “Intelliswitch” digital programmable controller - *see features below*
- ◆ High efficiency, low noise Pro-V Nozzle (patent pending)
- ◆ External j-box
- ◆ Galvanized steel fan wheels & housings
- ◆ Lockable airfoil aluminum air directional vanes
- ◆ Filter included (washable)
- ◆ Hinged white aluminum bottom access panel
- ◆ Powder coated inlet screen
- ◆ Venturi-Style electric heaters (patent pending)
- ◆ Easily replaceable heaters
- ◆ Two year parts warranty
- ◆ Crafted with Pride in the USA

**OPTIONAL BOTTOM EXTERIOR FINISH**

- ◆ Stainless steel
- ◆ Powder coated custom colors

MODEL	Nozzle Width (in)	Max. Velocity (fpm)	Avg. Outlet Velocity (fpm)	Air Volume (scfm)	# Motor(s) @ hp	Power Rating (kW)	Outlet Velocity Unif. (%)	Electric Capacity (kW)*	Heater Capacity (BTU/hr)	Temp. Rise (°F)	Net Wgt. (lbs)	Ship Wgt. (lbs)
FCA1036E	36"	3800	1573	1376	1 @ 1/2	0.47	92	14	47782	32	104	131
FCA1042E	42"	3800	1549	1581	1 @ 1/2	0.49	85	14	47782	28	111	140
FCA1048E	48"	3800	1377	1607	1 @ 1/2	0.51	87	14	47782	27	117	147
FCA1060E	66"	3800	1027	1647	1 @ 1/2	0.52	85	14	47782	27	137	172
FCA2060E	66"	3800	1674	2686	2 @ 1/2	0.92	91	28	95564	33	178	225
FCA2072E	72"	3800	1573	2752	2 @ 1/2	0.94	92	28	95564	32	185	233
FCA2084E	84"	3800	1549	3162	2 @ 1/2	0.98	85	28	95564	28	210	265
FCA2096E	99"	3800	1336	3214	2 @ 1/2	1.02	87	28	95564	27	223	281
FCA3096E	99"	3800	1493	3593	3 @ 1/2	1.41	94	42	143346	37	264	333
FCA2108E	108"	3800	1243	3262	2 @ 1/2	1.04	85	28	95564	27	230	290
FCA3108E	108"	3800	1573	4128	3 @ 1/2	1.45	85	42	143346	27	271	342
FCA3120E	117"	3800	1596	4538	3 @ 1/2	1.45	85	42	143346	29	281	354
FCA3132E	132"	3800	1431	4590	3 @ 1/2	1.49	87	42	143346	29	303	382
FCA3144E	144"	3800	1377	4821	3 @ 1/2	1.53	87	42	143346	27	316	398
FCA4144E	144"	3800	1573	5504	4 @ 1/2	1.88	92	56	191128	32	357	450

\*Reduced kW heaters available see sheet KW-427

**Intelliswitch® Features**

- ◆ Time Delay
- ◆ 3 Speed Fan Slection
- ◆ On/Off/Auto Operation
- ◆ Start/Stop Times
- ◆ Thermostat
- ◆ Low Voltage Control Circuit
- ◆ Time Clock
- ◆ LED Display
- ◆ Lockable Display

POWER SUPPLIES/MOTOR AMP DRAWS						
VOLTS	208	240	480	600	220*	380*
PHASE	1   3	1   3	3	3	1	1
HERTZ	60	60	60	60	50	50
AMPS per MOTOR	3.5	3.5	1.4	1.0	3.5	3.5

\*Operation at 50 Hz will generate approximately a 17% reduction in performance.

VELOCITY PROFILE Model: FCA1036E			
Distance from Nozzle (ft)	3	6.5	10
Distance from Nozzle (m)	1	2	3
Core Velocity (fpm)	1889	1333	1028
Core Velocity (m/s)	9.60	6.77	5.22
Uniformity	90	85	87

Sound level measured 10' (3m) from the unit in free field:  
Sound data is not AMCA certified. **60 dBA**



*Berner reserves the right to alter specifications without prior notice.*



FCA-10 Available kW's and Resulting Amp Draws										
		Heater kW	208/1	240/1	208/3	240/3	480/3	600/3		
1 Motor	FCA1036E FCA1042E FCA1048E FCA1060E	6 kW	28.8 (1)	25.0 (1)	16.7 (1)	14.4 (1)	7.2 (1)	6.0 (1)		
		8 kW	38.5 (1)	33.3 (1)	22.2 (1)	19.2 (1)	9.6 (1)	8.0 (1)		
		10 kW	48.1 (2)	41.7 (1)	27.8 (1)	24.1 (1)	12.0 (1)	10.0 (1)		
		14 kW	67.3 (2)	58.3 (2)	38.9 (1)	33.7 (1)	16.8 (1)	14.1 (1)		
2 Motor	FCA2060E FCA2072E FCA2084E FCA2096E FCA2108E	12 kW	57.7 (2)	50.0 (2)	33.3 (1)	28.9 (1)	14.4 (1)	12.0 (1)		
		16 kW	76.9 (2)	66.7 (2)	44.4 (2)	38.5 (1)	19.2 (1)	16.1 (1)		
		20 kW	N/A	N/A	55.5 (2)	48.1 (2)	24.1 (1)	20.1 (1)		
		28 kW	N/A	N/A	77.7 (2)	67.4 (2)	33.7 (1)	28.1 (1)		
3 Motor	FCA3096E FCA3108E FCA3120E FCA3132E FCA3144E	18 kW	N/A	N/A	50.0 (2)	43.3 (1)	21.7 (1)	18.1 (1)		
		24 kW	N/A	N/A	66.6 (2)	57.7 (2)	28.9 (1)	24.1 (1)		
		30 kW	N/A	N/A	83.3 (2)	72.2 (2)	36.1 (1)	30.1 (1)		
		42 kW	N/A	N/A	116.6 (3)	101.0 (3)	50.5 (2)	42.2 (1)		
4 Motor	FCA4144E	24 kW	N/A	N/A	66.6 (2)	57.7 (2)	28.9 (1)	24.1 (1)		
		32 kW	N/A	N/A	88.8 (3)	77.0 (2)	38.5 (1)	32.1 (1)		
		40 kW	N/A	N/A	111.0 (3)	96.2 (3)	48.1 (2)	40.2 (1)		
		56 kW	N/A	N/A	155.4 (4)	134.7 (4)	67.4 (2)	56.2 (2)		
<b>Amps per kW</b>			4.81	4.17	2.78	2.41	1.20	1.00		

Note: Power supply circuits are included above in parenthesis

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**IN-CEILING MOUNT-10**  
**Electric Heated**

*kW, BTU/HR and Temperature Rise*



No.:  
 Date:

KW-427B  
 June, 2011

**FCA ELECTRIC HEATER kW AND TEMPERATURE RISE - 208-600/3**

Model	Heater kW @ 208-600/3	BTU/HR	AIR TEMP RISE °F	Heater kW @ 208-600/3	BTU/HR	AIR TEMP RISE °F	Heater kW @ 208-600/3	BTU/HR	AIR TEMP RISE °F	Heater kW @ 208-600/3	BTU/HR	AIR TEMP RISE °F
FCA1036E*	14	47,782	32	10	34,130	23	8	27,304	18	6	20,478	14
FCA1042E*	14	47,782	28	10	34,130	20	8	27,304	16	6	20,478	12
FCA1048E*	14	47,782	27	10	34,130	20	8	27,304	16	6	20,478	12
FCA1060E*	14	47,782	27	10	34,130	19	8	27,304	15	6	20,478	11
FCA2060E*	28	95,564	33	20	68,260	23	16	54,608	19	12	40,956	14
FCA2072E*	28	95,564	32	20	68,260	23	16	54,608	18	12	40,956	14
FCA2084E*	28	95,564	28	20	68,260	20	16	54,608	16	12	40,956	12
FCA2096E*	28	95,564	27	20	68,260	20	16	54,608	16	12	40,956	12
FCA3096E*	42	143,346	37	30	102,390	26	24	81,912	21	18	61,434	16
FCA2108E*	28	95,564	27	20	68,260	20	16	54,608	16	12	40,956	12
FCA3108E*	42	143,346	27	30	102,390	23	24	81,912	18	18	61,434	14
FCA3120E*	42	143,346	29	30	102,390	21	24	81,912	17	18	61,434	12
FCA3132E*	42	143,346	29	30	102,390	21	24	81,912	16	18	61,434	12
FCA3144E*	42	143,346	27	30	102,390	20	24	81,912	16	18	61,434	12
FCA4144E*	56	191,128	32	40	136,520	23	32	109,216	18	24	81,912	14

\*For reduced kW, the model number needs to include kW. Example: FCA2096EB-140 for 14 kW heat.

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